

# Leica Viva GS08plus

## Data sheet



### Easy-to-use software

The compact and lightweight Leica Viva GS08plus smart antenna is equipped with the revolutionary Captivate software, turning complex data into the most realistic and workable 3D models. This antenna also works with the intuitive SmartWorx Viva software. With clear graphics, practical menu structures, understandable terminology and streamlined workflows, we had simplicity in mind. Captivate and SmartWorx Viva are incredibly easy to learn and use. You and your field crew will be up to speed in no time.



### Infinitely bridging the field to the office

Leica Infinity imports and combines data from your GNSS, total station and level instruments for one final and accurate result. Processing has never been made easier when all your instruments work in tandem to produce precise and actionable information.

### ACC»

### Customer care only a click away

Through Active Customer Care (ACC), a global network of experienced professionals is only a click away to expertly guide you through any problem. Eliminate delays with superior technical service, finish jobs faster with excellent consultancy support, and avoid costly site revisits with online service to send and receive data directly from the field. Control your costs with a tailored Customer Care Package, giving you peace of mind you're covered anywhere, anytime.

# Leica Viva GS08plus

## GNSS PERFORMANCE

GNSS technology	Leica SmartTrack	Advanced measurement engine
Leica SmartCheck	Continuous check of RTK solution	Reliability 99.95%
Signal tracking		GPS (L1, L2, L2C), Glonass (L1, L2), SBAS (WAAS, EGNOS, MSAS, GAGAN)
Number of channels		120 (up to 60 satellites simultaneously on two frequencies)

## MEASUREMENT PERFORMANCE & ACCURACY<sup>1</sup>

Time for initialisation		Typically 6 s
Real-time kinematic (Compliant to ISO17123-8 standard)	Single baseline Network RTK	Hz 10 mm + 1 ppm / V 20 mm + 1 ppm Hz 10 mm + 0.5 ppm / V 20 mm + 0.5 ppm
Post processing	Static (phase) with long observations Static and rapid static (phase)	Hz 3 mm + 0.5 ppm / V 6 mm + 0.5 ppm Hz 5 mm + 0.5 ppm / V 10 mm + 0.5 ppm
Code differential	DGPS / RTCM	Typically 25 cm

## COMMUNICATIONS

Communication ports	Lemo Bluetooth®	USB and RS232 serial Bluetooth® v2.00 + EDR, class 2
Communication protocols	RTK data protocols Network RTK	Leica, Leica 4G, CMR, CMR+, RTCM 2.2, 2.3, 3.0, 3.1, 3.2 MSM VRS, FKP, iMAX, MAC (RTCM SC 104)
Built-in data links <sup>2</sup>	3.75G GSM / UMTS / CDMA phone modem Radio modem	Fully integrated, internal antenna Fully integrated, receive and transmit, external antenna 403 - 470 MHz, 1 W output power
External data links		Bluetooth GSM / GPRS / UMTS / CDMA phone modem

## GENERAL

Field controller and software	Leica Captivate software Leica SmartWorx Viva software	Leica CS20 field controller Leica CS10 and CS15 field controller
User interface	Buttons and LEDs	On / Off button, 3 status LEDs
Data recording	Storage <sup>3</sup> Data type and recording rate	Removable SD card, 8 GB Leica GNSS raw data and RINEX data at up to 5 Hz
Power management	Internal power supply External power supply Operation time <sup>4</sup>	Exchangeable Li-Ion battery (2.6 Ah / 7.4 V) Nominal 12 V DC, range 10.5 - 28 V DC 8 h GNSS 7 h receiving RTK data with CS modem
Weight and Dimensions	Weight Diameter x Height	0.7 kg (GS08plus) / 2.70 kg standard RTK rover setup on pole 186 mm x 71 mm
Environmental	Temperature Drop Proof against water, sand and dust  Vibration  Humidity  Functional shock	-40 to 65°C operating, -40 to 80°C storage Withstands topple over from a 2 m survey pole onto hard surfaces IP68 (IEC60529 / MIL STD 810G 506.5 I / MIL STD 810G 510.5 I / MIL STD 810G 512.5 I) Withstands strong vibration (ISO9022-36-05 / MIL STD 810G 514.6 Cat.24) 100% (ISO9022-13-06 / ISO9022-12-04 / MIL STD 810G 507.5 I) 40 g / 15 to 23 msec (MIL STD 810G 516.6 I)

## LEICA VIVA GS08plus – GNSS SMART ANTENNA

### SUPPORTED GNSS SYSTEMS

GPS	✓
GLONASS	•
<b>RTK PERFORMANCE</b>	
DGPS/RTCM. RTK Unlimited, Network RTK	•
<b>POSITION UPDATE &amp; DATA RECORDING</b>	
1 Hz / 5 Hz positioning	✓ / •
Raw data / RINEX data logging	• / •
<b>ADDITIONAL FEATURES<sup>2</sup></b>	
3.75G / CDMA phone modem	•
UHF radio modem	•

✓ Standard

• Optional

<sup>1</sup> Measurement precision, accuracy, reliability and time for initialisation are dependent upon various factors including number of satellites, observation time, atmospheric conditions, multipath etc. Figures quoted assume normal to favourable conditions.

<sup>2</sup> Depending on used CS field controller. The CGR15 UHF radio modem is optional for CS15 field controller.

<sup>3</sup> Data is recorded on the CS field controller.

<sup>4</sup> Might vary with temperature, age of battery, transmit power of data link device.

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